



PATENT
ATTORNEY DOCKET NO. 10006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Gopalkrishnan) Group No.: n/a
Serial No. 09/655,972) Examiner: n/a
Filed: September 5, 2000)
For: **STABLE AQUEOUS LAUNDRY DETERGENTS CONTAINING VINYL
PYRROLIDONE COPOLYMERS**

To Assistant Commission for Patents and Trademarks
Washington, DC 20231

CERTIFICATE OF MAILING


Date of Deposit: December 7, 2000

I hereby certify that the following attached papers:

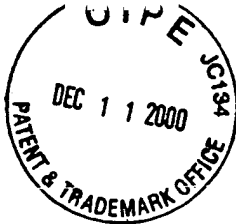
- 1) Information Disclosure Statement with PTO-1449; and
- 2) Stamped self-addressed return post card

are being deposited with the United States Postal Service First Class Mail Service Post Office to Addressee service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents and Trademarks, Washington, DC 20231.

Linda A. Komorowski


Signature of person mailing paper

BASF Corporation
Patent Department
3000 Continental Drive-North
Mount Olive, NJ 07828-1234



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Gopalkrishnan)

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PYRROLIDONE COPOLYMERS**

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, DC 20231

Dear Sir:

Applicant(s) submit(s) herewith patents, publications, or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose in accordance with 37 C.F.R. §1.56.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists. The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner.

☒ Submitted herewith is Form PTO-1449 (Modified) listing patents, publications, or other information for consideration by the Office.

COPIES PROVIDED:

☒ Legible copies of all items listed on Form PTO-1449 accompany this information statement, except as indicated below:

☐ Under 35 U.S.C. §120, this application relies on the earlier filing date of prior application. The following references were submitted to and/or cited by the Office on this prior application and are therefore not required to be provided in this application:

- ☐ In accordance with 37 C.F.R. §1.98(c), a copy of only [] is being submitted with this Information Disclosure Statement, and is cumulative of the following patents or publications listed on Form PTO-1449:

FOREIGN LANGUAGE DOCUMENTS

- ☐ There are no foreign language documents listed on Form PTO-1449.
- ☐ Submitted herewith is an English translation of the following foreign language patents, publications or information or of portions of those patents, publications or information considered to be material:
- ☐ No English language translations of the foreign language patents, publications or information or parts thereof are readily available, except for those listed above.
- ☐ The following foreign language documents submitted are believed to be the equivalent or substantial equivalent of the English language documents identified below, which are also submitted herewith:
- ☐ Submitted herewith is an English language version of a search report listing information not in the English language and indicating the degree of relevancy found by the [] Office, in satisfaction of the requirement (under 37 C.F.R. §1.98(a)(3)) for a concise explanation of the relevance of non-English information.
- ☒ A concise explanation of the relevance of the following listed non-English language information is included as presently understood by the individual designated in 37 C.F.R. §1.56(c) most knowledgeable about the content of the information as set forth below:

FR 2166112 The Derwent abstract for FR 2166112 provides "Detergent s contain ≥ 1 surfactant and active additive chosen from polyphosphates, complexants and detergents alkalis with 0.1-10% of a water soluble copolymer of vinyl pyrrolidone and vinyl acetate in molar ratio 4:1-1:4 (pref. 1:1-3.7) of mol. wt. 30,000-100,000. The copolymer prevents staining of synthetic and cellulosic textiles by reabsorption during washing."

EP 372291 The Derwent abstract for EP 372291 provides "A process is claimed for washing discolouration-sensitive textiles in aq. wash liquors contg. anionic surfactants (I), nonionic surfactants (II) and water-soluble polymers (III) as discolouration inhibitor, in which the wt. ratio (II):(I) in the liquor is 1:0.3 to 1:3, esp. 1:0.5 to 1:2 and the HLB value of the (II) is greater than 11. Also claimed is a washing additive comprising (II) and opt. (III). USE/ADVANTAGE Use of the claimed wash liquors inhibits transfer of dyes and brighteners from dyed or brightened fabrics to white, light-coloured and non-brightened fabrics when these are washed together, and thus combats discolouration and colour change of the sensitive fabrics. EMBODIMENT The wash liquor contains 0.1-3 g/l, esp. 0.5 - 1.5 g/l (I), 0.1-3 g/l, esp. 0.5-1.5 g/l (II) and 0.01-0.5 g/l, esp. 0.02-0.3 g/l (III). (III) comprises (co)polymers of N-vinylimidazole, N-vinyloxazolidone and/or (esp.), N-vinylpyrrolidone. (II) has an HLB value of 11.5-15 and is an adduct of thylene oxide to

linear or branched, satd. or unsatd. alcohols with at least 10C or mixts. of these. The wash liquor may also contain additional washing agent components. **EXAMPLE** A commercial washing agent with a ratio (II):(I) of 1:6.5 (HLB greater than 11) and contg. no discolouration inhibitor was used for washing a white cotton textile and a red dyed test fabric together at 60°C. The degree of discolouration judged by the colour difference determined as described in the journal Defazet, Vol. 31 (1977) No. 8, pages 318-324 was 26.9%. (No discolouration = 100%). Addn. of 0.05 g/l polyvinylpyrrolidone (PVP) to the wash liquor improved the degree of discolouration to 52.5%. Addn. of PVP and 0.5 g/l of an oxo alcohol ethoxylate with an HLB value of 12, to shift the ratio (II):(I) to 1:1.5 improved the disolouration to 80.9%."

- ☐ A concise explanation of the relevance of the following listed non-English language information is set forth in the above-identified specification:


CERTIFICATION:

- ☒ The Information Disclosure Statement transmitted herewith is being filed **within** three (3) months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 C.F.R. §1.97(b). Accordingly, it is believed that no certification or fee is due.
- ☐ The Information Disclosure Statement transmitted herewith is being filed **after** three (3) months of the filing date of the application or the date of entry into the national stage of an international application or after the mailing date of the first Office Action on the merits, whichever event occurred last but **before** the mailing date of either a final action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311, whichever occurs first. Accordingly, I hereby certify that:
- ☐ Each statement of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the statement; 37 C.F.R. §1.97(e)(1); **OR**
- ☐ That no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge as the person signing this certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this statement; 37 C.F.R. §1.97(e)(2); **OR**
- ☐ Applicant elects the option to pay the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under 37 C.F.R. §1.97(c). Please charge the **\$240.00** IDS submission fee to BASF Corporation **Deposit Account No. 09-0425**. A duplicate copy of this paper is enclosed for accounting purposes.
- ☐ The Information Disclosure Statement transmitted herewith is being filed **After a Final Action** under 37 C.F.R. §1.113, or **After a Notice of Allowance** under 37 C.F.R. §1.311, whichever occurs first, but **Before Payment of the Issue Fee**. Accordingly, I hereby certify that:
- ☐ Each statement of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the statement; 37 C.F.R. §1.97(e)(1); **OR**

- ☐ That no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge as the person signing this certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this statement; 37 C.F.R. §1.97(e)(2); **AND**
- ☐ Applicant hereby petitions for consideration of this Information Disclosure Statement; 37 C.F.R. §1.97(d)(2)(ii). Please charge the petition fee of **\$130.00** to BASF Corporation **Deposit Account No.** [_____]. A duplicate of this paper is enclosed.

The Commissioner is authorized to charge BASF Corporation Deposit Account No. 09-0425 for any additional fees due hereunder.

Respectfully submitted,



David T. Banchik, Reg. No. 36,439

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Dated: December 7, 2000